

# Take Home Assignment

Guidelines:

1. Answer in any programming language of your choice
2. If you like, you can choose your own output format for your solution.
3. Give us best optimized solution for all the above problems

## **1: Write a function to check whether two given strings are anagram of each other or not**

What is anagram?

An anagram of a string is another string that contains same characters, only the order of characters can be different.

Example:

I/P: Str1= "abcd", Str2= "dabc"

O/P: Input strings are anagram of each other

## **2: Find the first repeating element in an array of integers**

Given an array of integers, find the first repeating element in it. We need to find the element that occurs more than once and whose index of first occurrence is smallest.

Example:

I/P: arr = [100, 5, 3, 1, 0, 5, -8]

O/P: 5 [5 is the first element that repeats]

## **3: Find a triplet that sum to a given value X.**

Write a function to find if there is a triplet in integer array whose sum is equal to the given value x. If there is such a triplet present in array, then print the triplet and return true. Else return false. Just print first triplet if there are multiple triplets matching value x.

Example:

I/P : array [12, 3, 4, 1, 6, 9,-6] and given sum x =24

O/P : (12, 3 and 9)

